

Fig. 1

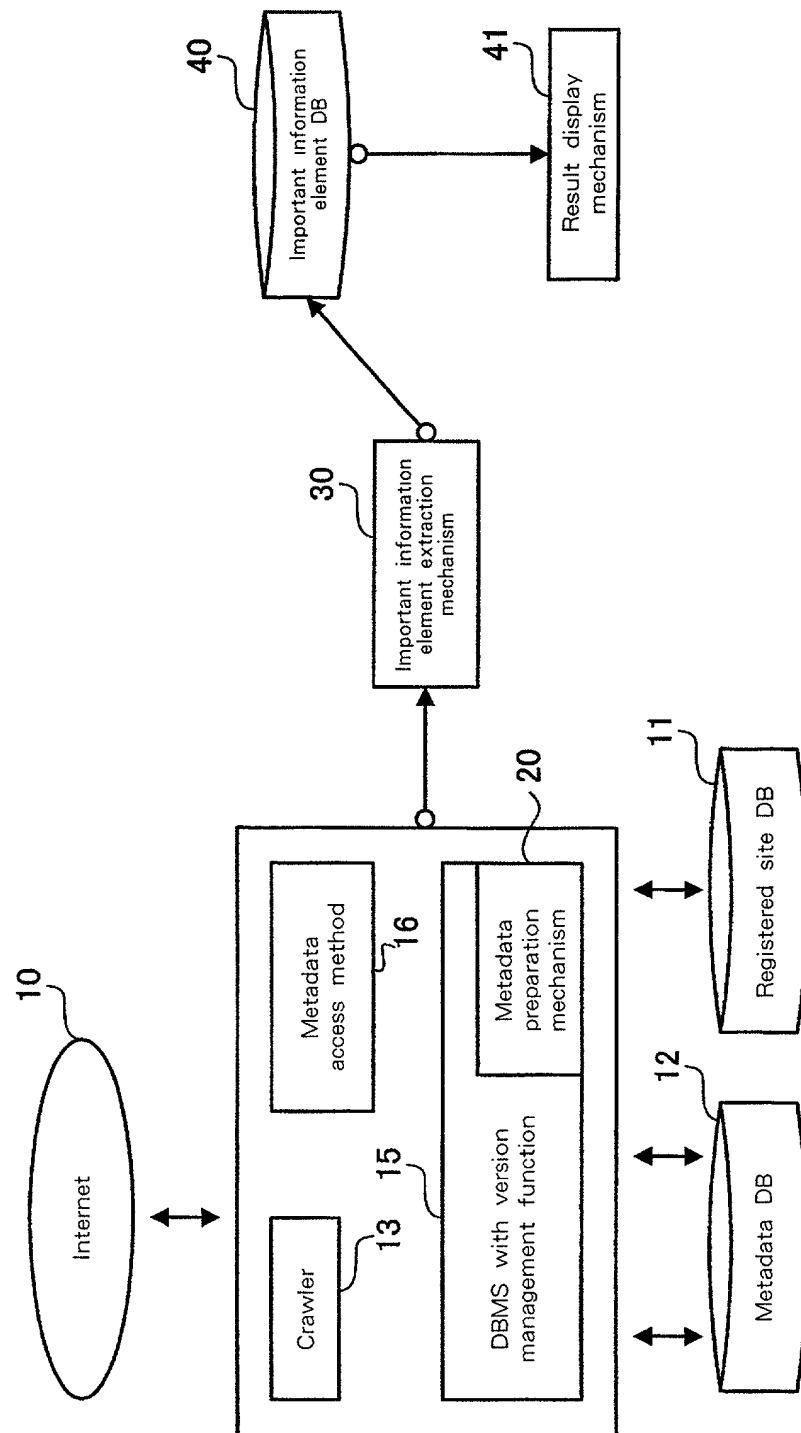


Fig. 2

Example registered site

```
<site>
  <url>http://www.ibm.co.jp/</url>
  <name>IBM Japan Homepage</name>
</site>
<site>
  <url>http://www.ibm.com/</url>
  <name>IBM Corporation</name>
</site>
<site>
  <url>http://www.jp.ibm.com/shop/</url>
  <name>IBM Japan, "Shopping" </name>
</site>
<site>
  <url>http://www.jp.ibm.com/developerworks/</url>
  <name>developerWorks</name>
</site>
```

Fig. 3

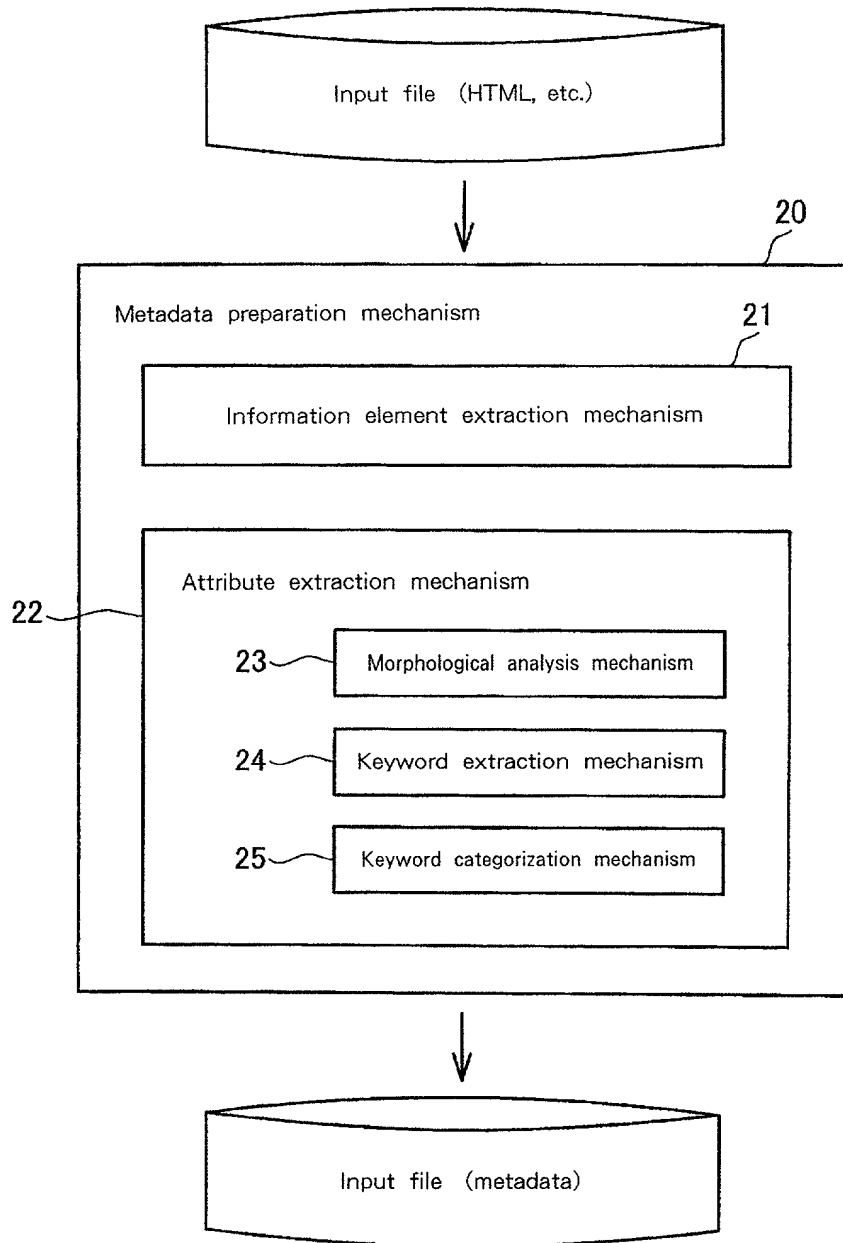


Fig. 4

Example link

Expression in an HTML file

```
<a href="http://www.ibm.com/jp/software/data/udb/v7/seminar.html">DB2 UDB V7 open free seminar</a>
```

Extracted information elements

```
<anchor>  
  // title of a link  
  <DCtitle>DB2 UDB V7 open free seminar</DCtitle>  
  // URL  
  <url>http://www.ibm.com/jp/software/data/udb/v7/seminar.html</url>  
  // extracted keywords  
  <kwds>  
    //      keywords      // categories of keywords  
    <kwd><word>DB</word><class>T0</class></kwd>  
    <kwd><word>UDB</word><class>T0</class></kwd>  
    <kwd><word>V</word><class>T0</class></kwd>  
    <kwd><word>seminar</word><class>I3</class></kwd>  
    <kwd><word>open</word><class>I3</class></kwd>  
    <kwd><word>free</word><class>I3</class></kwd>  
  </kwds>  
</anchor>
```

Fig. 5

Example text block

Expression in an HTML file

industry talk / this week's e - column

Extracted information elements

```
<text>
// text portion
<DCdescription>industry talk / this week's e - column
</DCdescription>
<kwds>
<kwd><word>e</word><class>T0</class></kwd>
<kwd><word>industry</word><class>T0</class></kwd>
<kwd><word>column</word><class>11</class></kwd>
<kwd><word>talk</word><class>13</class></kwd>
<kwd><word>this week</word><class>11</class></kwd>
</kwds>
</text>
```

Fig. 6

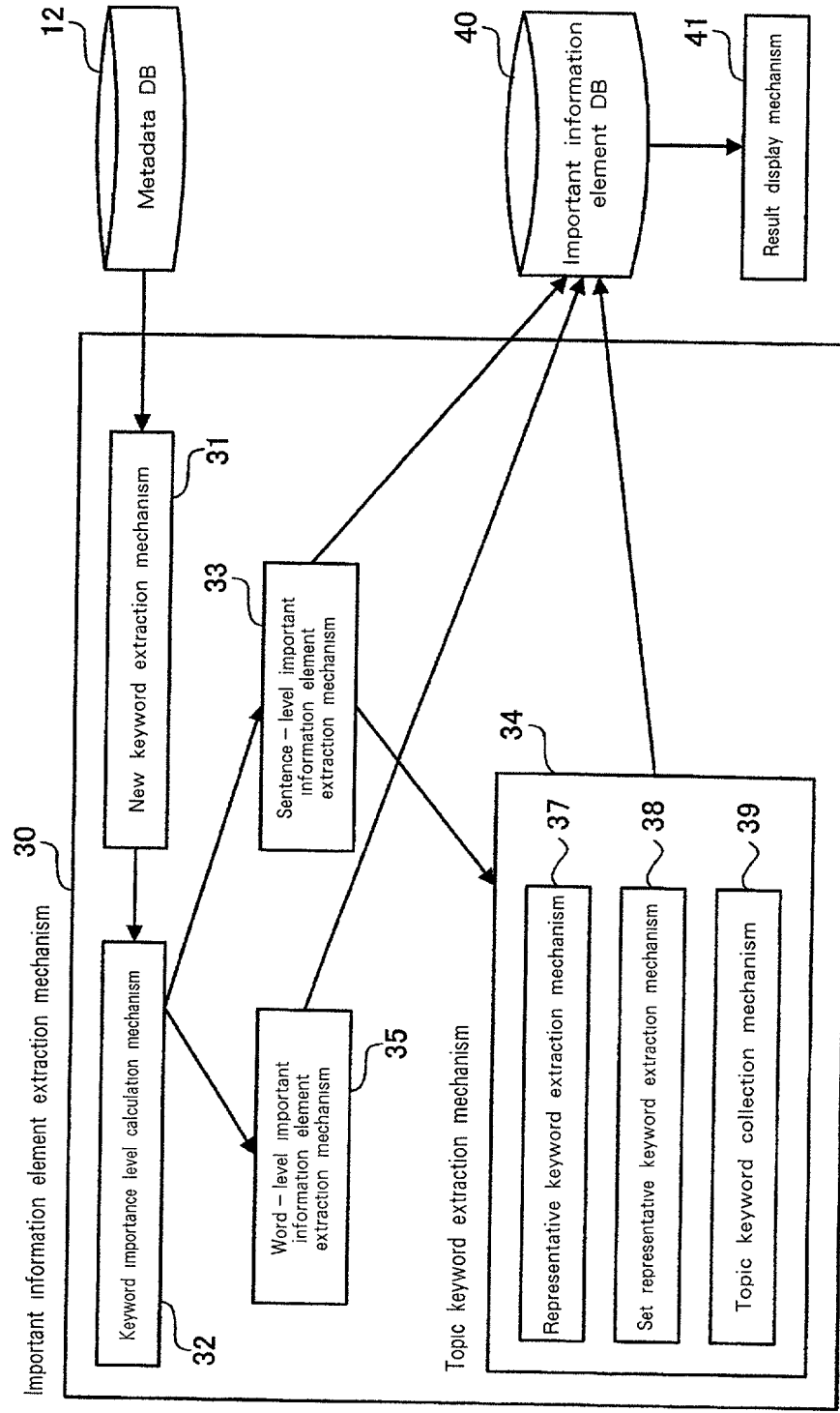


Fig. 7

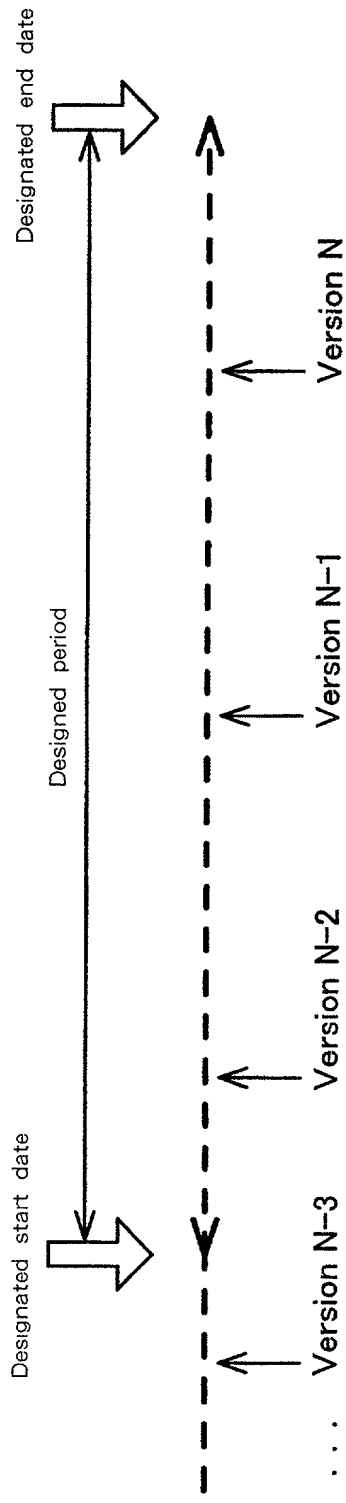


Fig. 8

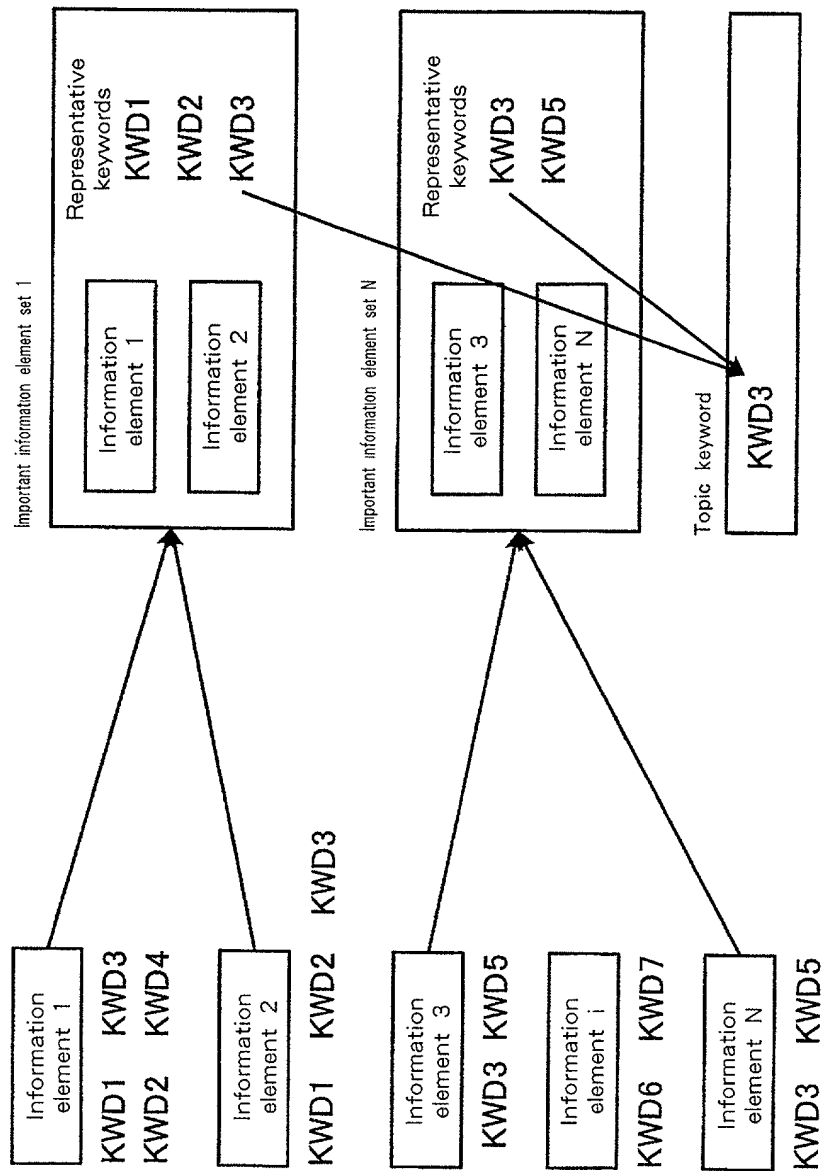


Fig. 9

Display of sentence - level important information element sets

IBM information

12/08

- ▶ <2> Announced software for constructing the e - marketplace
- ▶ <2> Joint development with company A for MRAM technique

12/07

- ▶ <4> IBM Japan ranked second through environmental management research - canvassed by GHI news agency
- ▶ <2> Announced new model "Aptiva X series" of liquid crystal integration type

12/07

- ★ Announced new model "Aptiva X series" of liquid crystal integration type
- ★ Announced new model "Aptiva X series" of liquid crystal integration type

12/07

- ▶ <2> Company B announced API that permits Java and XML to interact with each other
- ▶ <2> Notification of the opening of a lobby area at the operating office of IBM
- ▶ <2> IBM, ranked top by database comparison performed by InfoWorld
- ▶ <2> President's report (23) - from junior blue forum

12/06

- ▶ <4> Speech by president Otoshi - Fujisawa town meeting

12/04

- ★ Speech of president Otoshi - Fujisawa town meeting
- ★ Q & A to president Otoshi - Fujisawa town meeting
- ★ Fujisawa town meeting
- ★ Speech by president Otoshi - Fujisawa town meeting
- ▶ <2> IBM software product received the writers choice award for Java Report in five departments
- ▶ <2> Announced new entry model of IntelliStation

61

62

63

Fig. 10

IBM information

Topic keywords	Announced (4)	IBM (3)	President (2)	Software (2)
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12/08 65

➤ <2> Announced software for constructing the e - marketplace

➤ <2> Joint development with company A for MRAM technique

12/09

➤ <4> IBM Japan ranked second through environmental management research - canvassed by GHI news agency -

➤ <2> Announced new model "Aptiva X series" of liquid crystal integration type (12/6)

➤ <2> Company B announced API that permits Java and XML to interact with each other (12/4, CNJ)

➤ <2> Notification of the opening of a lobby area at the operating office of IBM

➤ <2> IBM, ranked top by database comparison performed by InfoWorld (12/5)

➤ <2> President's report (23) - from junior blue forum (1)

12/06

➤ <4> Speech by president Otoshi - Fujisawa town meeting (2000/11/29) (12/4)

➤ <2> IBM software product received the writers choice award for Java Report in five departments

➤ <2> Announced new entry model of IntelliStation (12/5)

Fig. 11

IBM information

Topic keywords	Announced (4)	IBM (3)	President (2)	Software (2)
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12/08 65
12/07 69

▼ <2> President's report (23) — from junior blue forum (1)

12/07 ★ President report: (23) "Put much value on it even though it may have happened casually" [IBM Japan]

12/07 ★ President's report (23) — from junior blue forum (1) [Tokyo Research Laboratory]

12/06

▼ <4> Speech by president Otoshi — Fujisawa town meeting (2000/11/29) (12/4)

12/06 ★ Speech of president Otoshi — Fujisawa town meeting (2000/11/29) (12/4) [Yamato Software Laboratory]

12/05 ★ Q. & A. to president Otoshi — Fujisawa town meeting (2000/11/29) [IBM Japan]

12/05 Fujisawa town meeting (2000/11/29) [Tokyo Research Laboratory]

12/05 ★ Speech by president Otoshi — Fujisawa town meeting (2000/11/29) [IBM Japan]

Fig. 12

Display of important information elements and relevant information at a single site

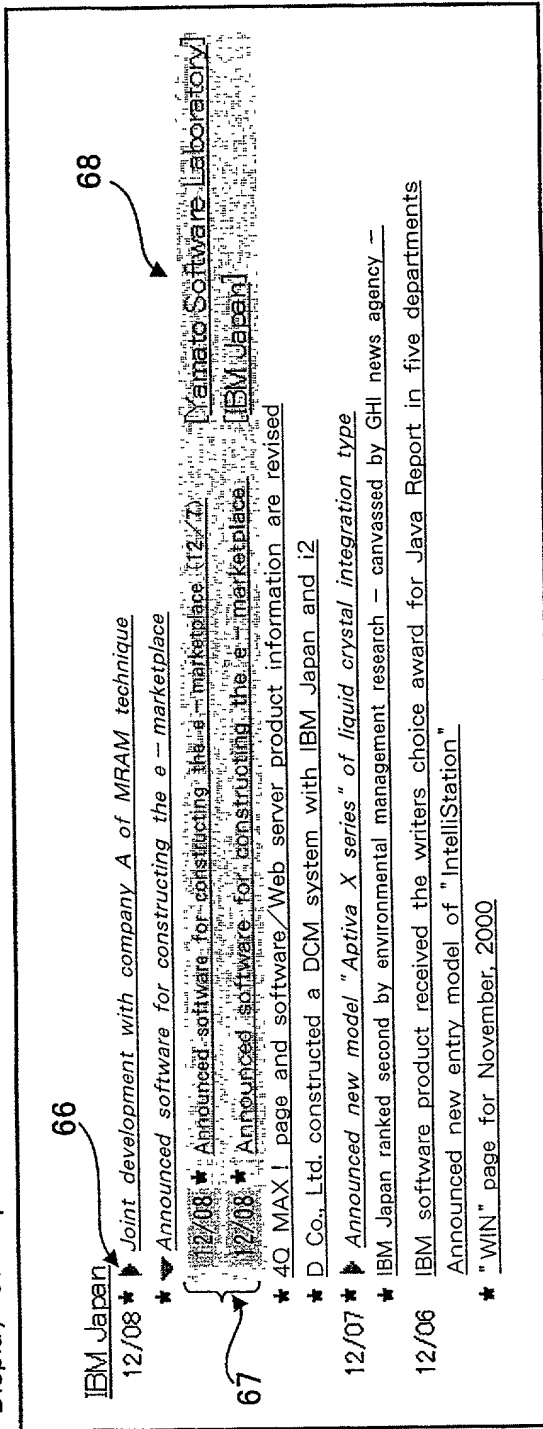




Fig. 13

Display of an annotation relative to an arbitrary web page



Search



Co

Home

Product Service

Industry

News

About IBM Japan

Shopping


+ Support

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News

Leading story

IBM direct sales



We provide not only PC products, but also software, peripheral devices and services

Latest information

DeveloperWorks latest information

New content was added to Linux, Collaboration, Components, Java technology, Open source, Web architecture, XML, Security and Unicode zones. A newly arrived column in the XML zone reader, "XML digital signature", is published.

12/08

Open the page of enterprise server (S/390) software

A Web page reporting software information associated with enterprise server (S/390) is opened

12/07

Joint development with company A for MRAM technique

On 7th, IBM and company A announced the joint development project for MRAM, which is an innovative memory technique. It is expected that, using the MRAM technique, the service life of the battery of a mobile computing device can be dramatically extended, and an instant-on computer can be provided that is immediately activated upon being powered on

12/07

D Co., Ltd constructed a DCM system with IBM Japan

D Co., Ltd announced that they adopted the TradeMax by XY Japan Co., Ltd. for the next-generation demand chain management (DCM) system construction project that is currently in progress, and with the support of IBM Japan, they are engaged in the development of this DCM system for operation next spring

12/07

Announced software for constructing the e-marketplace

Announced software for constructing the e-marketplace (IBM-based)

Announced software for constructing the e-marketplace (IBM-based)

12/06

IBM dominates the business intelligence market

Announced the latest "WebSphere Commerce Suite Market Place Edition" that provides all the e-marketplace construction functions and tools for software products "WebSphere Commerce Suite" for e-business system construction that is based on Java

Fig. 14

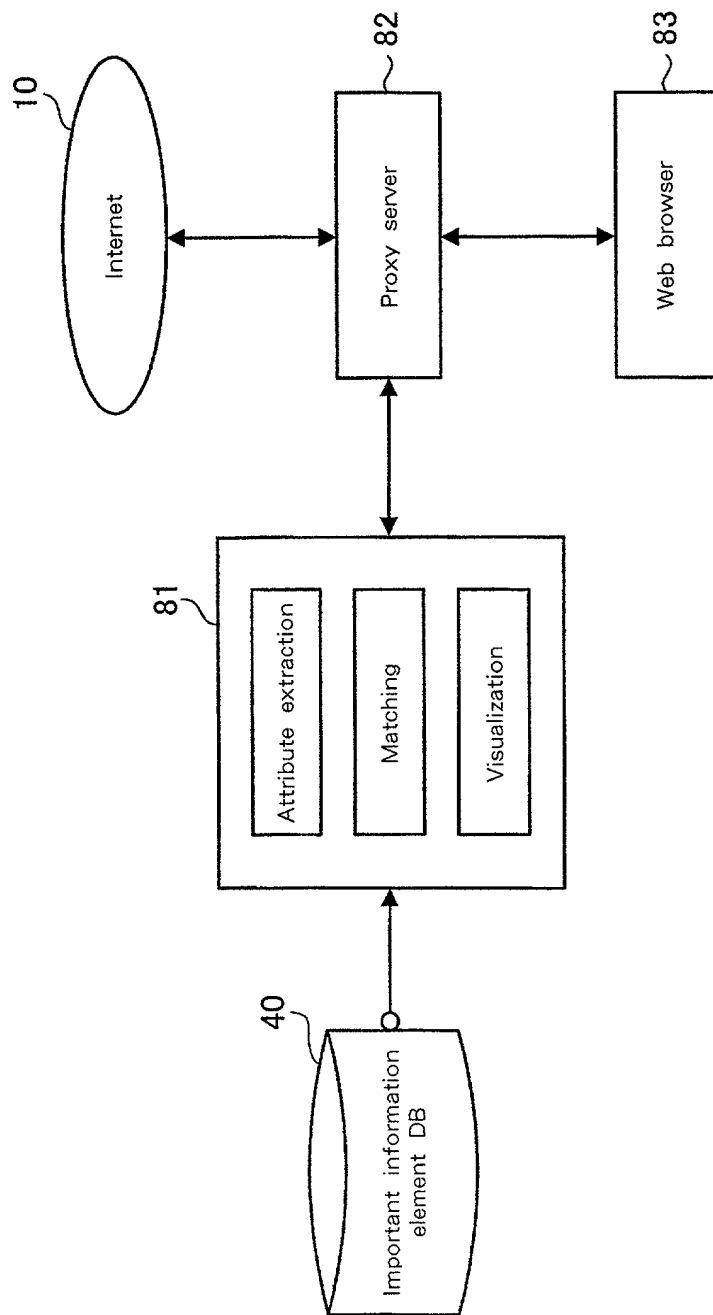


Fig. 15